## **Residential Electrical Service Checklist**

Address:						
OK	NG	N/A	#	Item**	NFP	A 70- 2011 NEC*
				General	2005 Connecticut St	ate Building Code
			1-	Obtain electrical permits and utility approval	2003 IBC 105.0 or 20	009 IRC R105.0
			_	Service Drop		
			2-	Minimum conductor sizes (AWG).		310.15(B)(7)
				100 Amp. #4 copper or #2 aluminum	7	Table 310.15(B)(7)
				200 Amp. #2/0 copper or #4/0 aluminu	um 7	Table 310.15(B)(7)
			3-	Minimum open conductor clearance from doors or windows	s is 3 feet	230.9
				Unless above a window		Exception
			4-	Minimum roof clearance is 8 feet		230.24(A)
				Reduction to 3 feet allowed for roof pitches $\geq 4:12$	2	Exception 2
				Reduction to 18 inches above overhangs (≤ 6 fee	t horiz. above overhanç	g) Exception 3
			5-	Minimum vertical ground clearance		230.24(B)
				10 feet from grade or sidewalks to lowest point of	drip loop	230.24(B)(1)
				12 feet from grade over residential driveways		230.24(B)(2)
			6-	Protect service entrance cables near driveways or where s	ubject to damage	230.50
			7-	Cable wall support within 12 inches of terminations & not o	ver 30 inch intervals	230.51(A)
			8-	Aluminum connections require anti-oxidant		110.3(B)
			9-	Service head listed for wet locations required		230.54
			10-	Locate weatherhead or gooseneck above service-drop atta	nch point	230.54(C)
				Where impracticable, locate within 24 inches of a		Exception
			11-	Formed drip loops and connections located below service I	nead	230.54(F)
				Grounding and Bonding		
			12-	Minimum grounding electrode conductor size (AWG)		250.66
				100 Amp - #6 unprotected or #8 copper in racewa		,
				200 Amp - #4 copper to water pipe and #6 copper	•	Table 250.66
				Aluminum conductors not allowed in contact with	-	250.64(A)
				Securely fasten and protect grounding electrode conductor		
				Grounding electrode conductor attached within 5 feet of wa		` '
				Clean electrodes at the clamp connector to make a perman	•	250.68(B)
			16-	Two 8 foot long ground rods at 6 feet minimum separation		250.53
				Eight feet of rod in ground contact, upper end flus	_	` ,
				Ground rod clamps suitable for direct burial & connect only		250.70
				All grounding electrode conductors must be brought to the		250.24(C)
				No grounding connections on the load side of service disco	_	250.24(A)(5)
				Main bonding jumper (strap or green screw) to service disc		250.28
				Bond both ends of metal raceways containing grounding el		250.64(E)
			22-	Bonding jumper required across water meters and insulate	d joints	250.68(B)
Service Panel						1 440 00
				Workspace in front of panel 30w x 36d x 78h except replace		
				Illumination of indoor working spaces about service equipm		110.26(D)
				Service disconnect limited to six switches or breakers at or		230.71(A)
				Service disconnect outside or inside at nearest point of ent	-	` ,
				· · · · · · · · · · · · · · · · · · ·		230.70(B)
				· · · · · · · · · · · · · · · · · · ·		408.4
	-			Fuse or circuit-breaker panels prohibited in clothes closets		240.24(D)&(E)
	-			Circuit breakers are compatible with the panel as listed on	•	110.3(B)
Com	mor	to:	JI-	Unused openings in panels, raceways or boxes shall be pro-	openy ciosea 408	3.7 & 110.12(A)
Comments:						
Build	Building Official:				:	

<sup>\*</sup>The equivalent provisions of the 2009 International Residential Code, Chapter 36 may be used in place of NFPA 70.

\*\*This checklist does not include every code requirement, but most common issues.